

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
 Issue Date: 27-Dec-2006
 NC317ECP

CHEMWATCH 8155-69
 Revision No:4
 CD 2006/3 Page 1 of 12

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME**

CIGWELD AUTOCRAFT AL5356

SYNONYMS

"Product Code : 721221, 722224, 722226, 722227, 723224, 723227"

PRODUCT USE

Aluminium - nominal 5% magnesium alloy wire suitable for Gas Metal Arc (GMA) welding of cast and wrought aluminium alloys containing 5% magnesium and wrought alloys of a lower magnesium content.

SUPPLIER

Company: CIGWELD Pty Ltd
 Address:
 71 Gower Street
 Preston
 VIC 3072
 AUS
 Telephone: (03) 9474 7400
 Telephone: 1300 654 674
 Emergency Tel: (03) 9474 7400

Section 2 - HAZARDS IDENTIFICATION**STATEMENT OF HAZARDOUS NATURE**

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

POISONS SCHEDULE

None

RISK

Limited evidence of a carcinogenic effect.

SAFETY

Do not breathe dust.
 Wear suitable protective clothing.
 To clean the floor and all objects contaminated by this material, use water and detergent.
 Keep away from food, drink and animal feeding stuffs.
 If swallowed, IMMEDIATELY contact Doctor or Poisons Information Centre (show this container or label).

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
aluminium alloy wire which upon use generates welding fumes including aluminium fumes magnesium oxide fume	Not avail.	>60
	7429-90-5	
	1309-48-4	

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
Issue Date: 27-Dec-2006
NC317ECP

CHEMWATCH 8155-69
Revision No:4
CD 2006/3 Page 2 of 12

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

iron oxide fume	1309-37-1
silica welding fumes	69012-64-2
manganese fume	7439-96-5
chromium fume	7440-47-3

Section 4 - FIRST AID MEASURES

SWALLOWED

Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract.

EYE

- Particulate bodies from welding spatter may be removed carefully.
- DO NOT attempt to remove particles attached to or embedded in eye.
- Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye.
- Seek urgent medical assistance, or transport to hospital.
- For "arc eye", i.e. welding flash or UV light burns to the eye:
- Place eye pads or light clean dressings over both eyes.
- Seek medical assistance.

SKIN

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.

NOTES TO PHYSICIAN

Copper, magnesium, aluminium, antimony, iron, manganese, nickel, zinc (and their compounds) in welding, brazing, galvanising or smelting operations all give rise to thermally produced particulates of smaller dimension than may be produced if the metals are divided mechanically. Where insufficient ventilation or respiratory protection is available these particulates may produce "metal fume fever" in workers from an acute or long term exposure.

- Onset occurs in 4-6 hours generally on the evening following exposure. Tolerance develops in workers but may be lost over the weekend. (Monday Morning Fever)
- Pulmonary function tests may indicate reduced lung volumes, small airway obstruction and decreased carbon monoxide diffusing capacity but these abnormalities resolve after several months.
- Although mildly elevated urinary levels of heavy metal may occur they do not correlate with clinical effects.
- The general approach to treatment is recognition of the disease, supportive care and prevention of exposure.
- Seriously symptomatic patients should receive chest x-rays, have arterial blood gases determined and be observed for the development of tracheobronchitis and pulmonary edema. [Ellenhorn and Barceloux: Medical Toxicology].

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
Issue Date: 27-Dec-2006
NC317ECP

CHEMWATCH 8155-69
Revision No:4
CD 2006/3 Page 3 of 12

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.
- DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

FIRE/EXPLOSION HAZARD

- Non combustible.
- Not considered to be a significant fire risk, however containers may burn.
- In a fire may decompose on heating and produce toxic / corrosive fumes.

FIRE INCOMPATIBILITY

Welding electrodes should not be allowed to come into contact with strong acids or other substances which are corrosive to metals.
Welding arc and metal sparks can ignite combustibles.

HAZCHEM: None

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS

Wear impervious gloves.
Clean up all spills immediately.
Avoid contact with skin and eyes.
Place in suitable containers for disposal.

MAJOR SPILLS

- Minor hazard.
- Clear area of personnel.
 - Alert Fire Brigade and tell them location and nature of hazard.
 - Control personal contact by using protective equipment if risk of overexposure exists.
 - Prevent, by any means available, spillage from entering drains or water courses.
 - Contain spill/secure load if safe to do so.
 - Bundle/collect recoverable product and label for recycling.
 - Collect remaining product and place in appropriate containers for disposal.
 - Clean up/sweep up area. Water may be required.
 - If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
Issue Date: 27-Dec-2006
NC317ECP

CHEMWATCH 8155-69
Revision No:4
CD 2006/3 Page 4 of 12

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- Earth all lines and equipment.
- Limit all unnecessary personal contact.
 - Wear protective clothing when risk of exposure occurs.
 - Use in a well-ventilated area.
 - Avoid contact with incompatible materials.
 - When handling, DO NOT eat, drink or smoke.
 - Keep containers securely sealed when not in use.
 - Avoid physical damage to containers.
 - Always wash hands with soap and water after handling.
 - Work clothes should be laundered separately.
 - Use good occupational work practice.
 - Observe manufacturer's storing and handling recommendations.
 - Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

SUITABLE CONTAINER

- Check that containers are clearly labelled.
- Packaging as recommended by manufacturer.
Multi-wall paper container NOTE: Bags should be stacked, blocked, interlocked, and limited in height so that they are stable and secure against sliding or collapse.

STORAGE INCOMPATIBILITY

Welding electrodes should not be allowed to come into contact with strong acids or other substances which are corrosive to metals.
Welding arc and metal sparks can ignite combustibles.

STORAGE REQUIREMENTS

- Keep dry.
- Store under cover.
- Protect containers against physical damage.
- Observe manufacturer's storing and handling recommendations.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	Peak ppm	Peak mg/m ³	TWA F/CC
Australia Exposure Standards	aluminium fumes (Aluminium, pyro powders (as Al))		5					
Australia Exposure Standards	aluminium fumes (Aluminium (welding fumes) (as Al))		5					
Australia Exposure Standards	aluminium fumes (Aluminium (metal dust))		10					
Australia Exposure Standards	magnesium oxide fume (Magnesium oxide (fume))		10					
Australia Exposure	iron oxide fume		5					

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
 Issue Date: 27-Dec-2006
 NC317ECP

CHEMWATCH 8155-69
 Revision No:4
 CD 2006/3 Page 5 of 12

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Source	Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	Peak ppm	Peak mg/m ³	TWA F/CC
Standards	(Iron oxide fume (Fe ₂ O ₃) (as Fe))							
Australia Exposure Standards	iron oxide fume (Inspirable dust (Not specified))		10					
Australia Exposure Standards	manganese fume (Manganese, fume (as Mn))		1		3			
Australia Exposure Standards	manganese fume (Manganese, dust & compounds (as Mn))		1					
Australia Exposure Standards	chromium fume (Chromium (metal))		0.5					
Australia Exposure Standards	chromium fume (Chromium (III) compounds (as Cr))		0.5					

The following materials had no OELs on our record under the following CAS or Chemwatch (CW) numbers

- Cigweld Autocraft AL5356 CW:8155-69
- welding fumes: No data available for CW:35201
- silica welding fumes: No data available for CAS:69012-64-2 CW:27313
- manganese fume: No data available for CAS:7439-96-5

EMERGENCY EXPOSURE LIMITS

Material	Revised IDLH Value (mg/m ³)	Revised IDLH Value (ppm)
magnesium oxide fume	750	
iron oxide fume	2,500	
manganese fume	500	
chromium fume	250	

ODOUR SAFETY FACTOR (OSF)

Not available. Refer to individual constituents.

INGREDIENT DATA

WELDING FUMES:

In addition to complying with any individual exposure standards for specific contaminants, where current manual welding processes are used, the fume concentration inside the welder's helmet should not exceed 5 mg/m³, when collected in accordance with the appropriate standard (AS 3640, for example).

ES* TWA: 5 mg/m³

TLV* TWA: 5 mg/m³, B2 (a substance of variable composition)

OES* TWA: 5 mg/m³

Most welding, even with primitive ventilation, does not produce exposures inside the welding helmet above 5 mg/m³. That which does should be controlled (ACGIH). Inspirable dust concentrations in a workers breathing zone shall be collected and measured in accordance with AS 3640, for example. Metal content can be analytically determined by OSHA Method ID25 (ICP-AES) after total digestion of filters and dissolution of captured metals. Sampling of the Respirable Dust fraction requires cyclone separator devices (elutriators) and procedures to comply with AS 2985 (for example).

For each of the following

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
Issue Date: 27-Dec-2006
NC317ECP

CHEMWATCH 8155-69
Revision No:4
CD 2006/3 Page 6 of 12

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ALUMINIUM FUMES:
MAGNESIUM OXIDE FUME:
IRON OXIDE FUME:
SILICA WELDING FUMES:
MANGANESE FUME:
CHROMIUM FUME:
Not available

PERSONAL PROTECTION

EYE

Welding helmet with suitable filter. Welding hand shield with suitable filter.

- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

For most open welding/brazing operations, goggles, even with appropriate filters, will not afford sufficient facial protection for operators. Where possible use welding helmets or handshields corresponding to AS 1336 and AS 1338 which provide the maximum possible facial protection from flying particles and fragments. [WRIA-WTIA Technical Note 7].

HANDS/FEET

Welding Gloves
Safety footwear.

OTHER

Overalls.

- Eyewash unit.

Aprons, sleeves, shoulder covers, leggings or spats of pliable flame resistant leather or other suitable materials may also be required in positions where these areas of the body will encounter hot metal.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.

For further information consult site specific CHEMWATCH data (if available), or your Occupational Health and Safety Advisor.

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
Issue Date: 27-Dec-2006
NC317ECP

CHEMWATCH 8155-69
Revision No:4
CD 2006/3 Page 7 of 12

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

Special ventilation requirements apply for processes which result in the generation of aluminium, copper, fluoride, manganese or zinc fume.

- For work conducted outdoors and in open work spaces, the use of mechanical (general exhaust or plenum) ventilation is required as a minimum. (Open work spaces exceed 300 cubic meters per welder)

- For indoor work, conducted in limited or confined work spaces, use of mechanical ventilation by local exhaust systems is mandatory. (In confined spaces always check that oxygen has not been depleted by excessive rusting of steel or snowflake corrosion of aluminium)

Local exhaust systems must be designed to provide a minimum capture velocity at the fume source, away from the worker, of 0.5 metre/sec.

If risk of inhalation or overexposure exists, wear SAA approved respirator or work in fume hood.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Solid silvery bright drawn metallic wire.

PHYSICAL PROPERTIES

Solid.

Does not mix with water.

Molecular Weight: Not Available

Melting Range (°C): 640

Solubility in water (g/L): Immiscible

pH (1% solution): Not Applicable

Volatile Component (%vol): Not Applicable

Relative Vapour Density (air=1): Not Applicable

Lower Explosive Limit (%): Not Applicable

Autoignition Temp (°C): Not Applicable

State: Solid

Boiling Range (°C): Not Available

Specific Gravity (water=1): Not Available

pH (as supplied): Not Applicable

Vapour Pressure (kPa): Not Applicable

Evaporation Rate: Not Applicable

Flash Point (°C): Not Applicable

Upper Explosive Limit (%): Not Applicable

Decomposition Temp (°C): Not Applicable

Viscosity: Not Applicable

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract.

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
Issue Date: 27-Dec-2006
NC317ECP

CHEMWATCH 8155-69
Revision No:4
CD 2006/3 Page 8 of 12

Section 11 - TOXICOLOGICAL INFORMATION

EYE

Fumes from welding/brazing operations may be irritating to the eyes.
Arc rays can injure eyes.

SKIN

Skin contact does not normally present a hazard, though it is always possible that occasionally individuals may be found who react to substances usually regarded as inert.
Arc rays can burn skin.

INHALED

Fumes evolved during welding operations may be irritating to the upper-respiratory tract and may be harmful if inhaled.

Aluminium fume, as aluminium oxide, is a respiratory tract irritant. Inhalation of freshly formed metal oxide particles sized below 1.5 microns and generally between 0.02 to 0.05 microns may result in "metal fume fever". Symptoms may be delayed for up to 12 hours and begin with the sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalised feeling of malaise. Mild to severe headache, nausea, occasional vomiting, fever or chills, exaggerated mental activity, profuse sweating, diarrhoea, excessive urination and prostration may also occur. Tolerance to the fumes develops rapidly, but is quickly lost. All symptoms usually subside within 24-36 hours following removal from exposure.

CHRONIC HEALTH EFFECTS

Principal route of exposure is inhalation of welding fumes from electrodes and workpiece. Reaction products arising from electrode core and flux appear as welding fume depending on welding conditions, relative volatilities of metal oxides and any coatings on the workpiece. Studies of lung cancer among welders indicate that they may experience a 30-40% increased risk compared to the general population. Since smoking and exposure to other cancer-causing agents, such as asbestos fibre, may influence these results, it is not clear whether welding, in fact, represents a significant lung cancer risk. Whilst mild steel welding represents little risk, the stainless steel welder, exposed to chromium and nickel fume, may be at risk and it is this factor which may account for the overall increase in lung cancer incidence among welders. Cold isolated electrodes are relatively harmless.

TOXICITY AND IRRITATION

Not available. Refer to individual constituents.
unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances

WELDING FUMES:

Not available. Refer to individual constituents.
WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

ALUMINIUM FUMES:

No toxicity or irritation data available.

MAGNESIUM OXIDE FUME:

TOXICITY
Inhalation (human) TCl₀: 400 mg/m³
Substance has been investigated as a tumorigen;
found to be an equivocal tumorigenic agent by RTECS criteria
in rodents.

IRRITATION
Nil Reported

IRON OXIDE FUME:

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
Issue Date: 27-Dec-2006
NC317ECP

CHEMWATCH 8155-69
Revision No:4
CD 2006/3 Page 10 of 12

Section 12 - ECOLOGICAL INFORMATION

DO NOT discharge into sewer or waterways.
Refer to data for ingredients, which follows:

SILICA WELDING FUMES:
No data

Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

Section 14 - TRANSPORTATION INFORMATION

HAZCHEM: None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN, IATA,
IMDG

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE: None

REGULATIONS

welding fumes (CAS No:Not avail):
No regulations applicable

aluminium fumes (CAS: 7429-90-5) is found on the following regulatory lists;

Australia - Australia New Zealand Food Standards Code - Food Additives - Schedule 1
Permitted uses of food additives by food type

Australia - Australian Capital Territory - Environment Protection Regulation: Ambient
environmental standards (IRRIG - inorganic chemicals)

Australia - Australian Capital Territory - Environment Protection Regulation: Ambient
environmental standards (STOCK - inorganic chemicals)

Australia - Australian Capital Territory - Environment Protection Regulation:
Pollutants entering waterways taken to cause environmental harm (Aquatic habitat)

Australia - Australian Capital Territory - Environment Protection Regulation:
Pollutants entering waterways taken to cause environmental harm (IRRIG)

Australia - Australian Capital Territory Environment Protection Regulation
Pollutants entering waterways - Agricultural uses (Stock)

Australia - Australian Capital Territory Environment Protection Regulation
Pollutants entering waterways - Domestic water quality

Australia Exposure Standards

Australia High Volume Industrial Chemical List (HVICL)

Australia Inventory of Chemical Substances (AICS)

OECD Representative List of High Production Volume (HPV) Chemicals

WHO Guidelines for Drinking-water Quality - Chemicals for which guideline values have
not been established

magnesium oxide fume (CAS: 1309-48-4) is found on the following regulatory lists;

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
Issue Date: 27-Dec-2006
NC317ECP

CHEMWATCH 8155-69
Revision No:4
CD 2006/3 Page 11 of 12

Section 15 - REGULATORY INFORMATION

Australia - Australia New Zealand Food Standards Code - Food Additives - Schedule 1
Permitted uses of food additives by food type
Australia - Australia New Zealand Food Standards Code - Processing Aids - Permitted
decolourants, clarifying, filtration and adsorbent agents
Australia Exposure Standards
Australia High Volume Industrial Chemical List (HVICL)
Australia Inventory of Chemical Substances (AICS)
Australia National Pollutant Inventory
CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in
Food in General, Unless Otherwise Specified, in Accordance with GMP
International Council of Chemical Associations (ICCA) - High Production Volume List
OECD Representative List of High Production Volume (HPV) Chemicals

iron oxide fume (CAS: 1309-37-1) is found on the following regulatory lists;

Australia Exposure Standards
Australia High Volume Industrial Chemical List (HVICL)
Australia Inventory of Chemical Substances (AICS)
Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule
2
Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule
4
Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule
6
International Agency for Research on Cancer (IARC) Carcinogens
International Council of Chemical Associations (ICCA) - High Production Volume List
OECD Representative List of High Production Volume (HPV) Chemicals

silica welding fumes (CAS: 69012-64-2) is found on the following regulatory lists;

Australia Inventory of Chemical Substances (AICS)
OECD Representative List of High Production Volume (HPV) Chemicals

manganese fume (CAS: 7439-96-5) is found on the following regulatory lists;

Australia - Australian Capital Territory - Environment Protection Regulation: Ambient
environmental standards (Domestic water supply - inorganic chemicals)
Australia - Australian Capital Territory - Environment Protection Regulation: Ambient
environmental standards (IRRIG - inorganic chemicals)
Australia - Australian Capital Territory - Environment Protection Regulation:
Pollutants entering waterways taken to cause environmental harm (IRRIG)
Australia - Australian Capital Territory Environment Protection Regulation
Pollutants entering waterways - Domestic water quality
Australia Exposure Standards
Australia Inventory of Chemical Substances (AICS)
Australia National Pollutant Inventory
OECD Representative List of High Production Volume (HPV) Chemicals
WHO Guidelines for Drinking-water Quality - Guideline values for chemicals that are
of health significance in drinking-water

chromium fume (CAS: 7440-47-3) is found on the following regulatory lists;

Australia - Australia New Zealand Food Standards Code - Processing Aids - Permitted
catalysts
Australia - Australian Capital Territory - Environment Protection Regulation: Ambient
environmental standards (AQUA/1 to 6 - inorganic chemicals)
Australia - Australian Capital Territory - Environment Protection Regulation: Ambient
environmental standards (IRRIG - inorganic chemicals)
Australia - Australian Capital Territory - Environment Protection Regulation: Ambient
environmental standards (STOCK - inorganic chemicals)
Australia - Australian Capital Territory - Environment Protection Regulation:
Pollutants entering waterways taken to cause environmental harm (Aquatic habitat)

continued...

CIGWELD AUTOCRAFT AL5356

Chemwatch Material Safety Data Sheet
Issue Date: 27-Dec-2006
NC317ECP

CHEMWATCH 8155-69
Revision No:4
CD 2006/3 Page 12 of 12

Section 15 - REGULATORY INFORMATION

Australia - Australian Capital Territory - Environment Protection Regulation:
Pollutants entering waterways taken to cause environmental harm (IRRIG)
Australia - Australian Capital Territory Environment Protection Regulation
Pollutants entering waterways - Agricultural uses (Stock)
Australia - Australian Capital Territory Environment Protection Regulation
Pollutants entering waterways - Domestic water quality
Australia - Western Australia Hazardous Substances Prohibited for Specified Uses or
Methods of Handling
Australia Exposure Standards
Australia Inventory of Chemical Substances (AICS)
Australia National Pollutant Inventory
International Agency for Research on Cancer (IARC) Carcinogens
OECD Representative List of High Production Volume (HPV) Chemicals
WHO Guidelines for Drinking-water Quality - Guideline values for chemicals that are
of health significance in drinking-water

No data available for welding fumes as CAS: Not avail.

Section 16 - OTHER INFORMATION

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.

Issue Date: 27-Dec-2006
Print Date: 27-Dec-2006